Table 1: September 3, 1997 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	• Continuing development of the Release 2 flight ready system. (Anselmo, Cooper, Escuadra, Hess, Rodier, Spence) • Working on changing code to only tag fully Earth-Viewing footprints as Earth Looks. (Anselmo, Cooper) • Working to add Instrument parameters to the User's Guide. (Hess) • Reviewing the TRMM MOC database. (Hess) • Continuing updates to the Output Product Manager to handle Diagnostic data structures. (Escuadra) • Integrated the TK 5.2 Metadata routines into the Instrument Subsystem. (Rodier) • Investigating the effects of elevation offsets on geolocation values. (Rodier, Weaver) • Completed Draft of the document to describe the Elevation Offset Angle analysis. (Spence) • Continuing work on IES QC Report. (Spence) • Making updates to the Radiance Spreadsheet to add Second Time Constant for verification of the new radiance algorithms. (Filer) • Continue working on validation of geolocation data in the latest release of the SS1 code. (Lee) • Continue working TRMM Operations issues related to the 30-day test. (Weaver) • DAAC Delivery of updated software for the 30-day test completed Aug. 26. Problems with environments not being the same on thunder as at DAAC caused problems with CM testing. (Anselmo, Cooper, Escuadra, Hess, Rodier, Spence)	

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2.0	Chang	• Examined the abnormal termination output from inversion for 11/9/87 ERBS data reprocessing on warlock. The longitude value for measurement 132 in record 1840 was bad while all measurement data were flagged good in file s8_871109_2. The bad longitude value was replaced in file PRES8_19871109_2 and data reprocessing was continued. (Chang) • Completed 5+ years of ERBE ERBS daily and monthly data reprocessing. (O'Beirne) • Completed ERBE NOAA9 04/85 and 10/86 two months of daily and monthly data reprocessing. (O'Beirne) • Started implementing the ERBE-like/LaTIS output data validation system on samantha and lposun. (Liu, Flug) • Supported Richard on examining the ES8 and QC report files from the ERBE data reprocessing. (Chang) • Added the tropical constants and 3 channel intercomparison code to the version of inversion program which uses old ERBE ADMs bin structure but new CERES ERBE-like spectral correction algorithm. (Chang) • Created 1997 solar declination and ES4 housekeeping files and processed TRMM sim3 pre-ES8 file PRES8_19970613_1 from SS1.0 through subsystems 2 and 3. ERBE composite snow map file for June and a preliminary TRMM spectral correction coefficient file were used for the subsystem 2 daily data processing. (Chang) • Started working with Dave Rutan on writing a module to read the NESDIS Snow files received by the DAAC. (Kizer) • Started implementing metadata in inversion code to generate metadata file for an ES8 file, using CERESLIB Toolkit 5.2 metadata wrappers. (Snell)	
3.0	Chang	• Combined with above.	

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SS No.	SS Lead	Status	Problems
4.1	Murray	• Coded, integrated, tested and delivered code to read the emittance map for window channel into our production code. Communicated with Dave Young about using this emittance information with the Skin Temperature/Correlated K algorithm. Coded, tested, and delivered modules to use this information. (Sun-Mack) • Improved the speed of the Shadow Detection Algorithm. (Sun-Mack) • Modified the CRH DX program to give a discreet color bar rather than a continuous color bar. Made presentations concerning the status of the CRH algorithm at the Cloud Working Group Meeting. (Sun-Mack) • Modified VIRS radiance simulator code to handle VIRS format from latest TRMM simulation. Worked with Walt Miller on simulating VIRS radiances. (McIntire) • Modified, tested, and redelivered the LocalDirection module to fix a memory leak. (McIntire) • Completed implementation of modifications to the Cloud QC file. It now uses the CERES 1 degree nested grid, contains more parameters, and has a reduced record size. (McIntire) • Tested the new 7.2 F90 compiler on blizzard. Notified Joe of several changes as to how data structures are written to disk. (McIntire) • Reworked the portion of the Subsystem that produces the Gridded product to use the Daily QC files as the source of the data rather than the hourly CloudVis files. (Murray) • Completed a 14-Day and a 31-Day test of Subsystem 4.1-4.3. (Murray) • Removed a version of the CRH algorithm that was based on local time. Its removal cut Subsystems 4.1-4.3 memory requirements from ~600M to ~250M. (Murray) • Completed modifications to the Cloud Code, PCFile, and execution environment to allow for execution under Toolkit 5.2. (Murray, Miller)	
4.2	Murray	• Combined with above.	

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SS No.	SS Lead	Status	Problems
4.3	Murray	• Combined with above.	
4.4	McKinley	• Implemented simple method to correlate visible and infrared radiance in simulated VIRS data. Despite Kevin McIntire resolving some problems, still cannot calculate good daytime cloud properties. (Miller) • Developed test driver for subroutines that perform weighted means to assist in SGI 7.2 beta FORTRAN compiler test. (Dunton) • Completed a subroutine to produce a formatted print of pixel data. (Miller, Dunton) • Tested SGI 7.2 beta FORTRAN compiler. Lost about 1/3 of the footprints. Trying to understand the problem. (McKinley, Miller) • Processed day 1, hour 5 to produce subsetted and full SSF for Erika Geier's PSF study. (Miller) • Testing Metadata files for tk5.2. (Hyer) • Modified code to create IES look-alike files from ES8 data product. Created IES files for 31 days of October, 1986, NOAA-9 data for use in Pathfinder studies. (McKinley) • Worked with DAAC (Jill Travers) to resolve problems with initial test of Subsystem 4.4 Release 2 on samantha. Validated results of subsequent test. (McKinley) • Revised makefile, environment scripts and PCF to compile and run Subsystem 4.4 with Toolkit 5.2 and HDF Version 4.1r1. Tested successfully on lightning, 8/21. (McKinley, Miller)	

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SS No.	SS Lead	Status	Problems
4.5	Nolan	• Worked with CERES CM to resolve a discrepancy in the environment variable definitions used for verifying the Release 2 software. The Release 2 Delivery Package for Subsystems 4.5 and 4.6 was delivered to the DAAC on 8/22/97, a week ahead of schedule. (Franklin) • Began testing of Subsystem 4.5 and 4.6 code using the SGI 7.2 compiler. Packing data structures with dummy variables is required in order to read files created with other computers. Other differences are being investigated. (Nolan) • Timing estimates for the creation of the SSF HDF file containing 23 SDSs for a 214 megabyte SSF were gathered to get some pros and cons of SDSs vs. Vdatas. The creation of the HDF file took over 7 hours of clock time, but only 14 minutes of system time. After changing the SDS's unlimited dimensions to a fixed dimension, the HDF file was created in 4 minutes (2 system minutes). Due to the problems encountered with the SDSs, timing estimates for the HDF files containing Vdatas have not yet been completed. Email was sent to Shiming Xu of NCSA to gather any new information regarding the packing of Vdatas in Fortran 90. (Franklin) • Continued prologue documentation and testing of the SSF to HDF post processor software. (Franklin) • Continued work to document the SSF's HDF file definitions. (Franklin) • Created 4 SSFs for the Pathfinder study for October 1, 1986. (Franklin)	
4.6	Nolan	• Combined with above.	

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SS No.	SS Lead	Status	Problems
5.0	Coleman	• Finished successfully implementing the last of the new Science Team algorithm updates within the SARB code (this does not include the surface albedo post-processor). (Gupta, Coleman) • Making switch from using an SSF generated around April to using a current version. (Gupta) • Implemented a SARB library approach for code preparing tar files and test plans for DAAC delivery of 5.0. (Gupta, Coleman) • Delivered ceres_meteor.f90 and accompanying README file to CERESlib. (Coleman)	
7.2	Coleman	• Combined with above.	
12.0	Coleman	• Developed capability to plot ozone mixing ratio profiles for requested MOA regions. (Kizer) • Began testing Regrid MOA Subsystem with the daily DAO data now being delivered to the DAAC. (Kizer) • Plotted DAO's newest parameter, the tropopause height, for comparison with results from existing in-house software that calculates the same. These plots were provided to the local science team for their evaluation of the DAO tropopause height data. (Kizer) • Began hashing out parameter definitions for MOA User's Guide. (Coleman)	
7.1	Jimenez	• Combined with below.	
8.0	Jimenez	• Combined with below.	
10.0	Jimenez	• Gave a draft version of the column-weighted cloud algorithm to Nichele for testing with SS6 and 9. Continued testing algorithm. (Jimenez) • Continued making modifications to SS8 to calculate the adjustment parameters for the four cloud layers using the new algorithms. (Jimenez) • Began working on Delivery Memo. (Jimenez) • Created a small routine to fill the input arrays into SS8 for testing. (Raju) • Began attempts to compile and run code using the SGI 7.2 compiler. (Raju)	

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6.0	McKoy	• Continued updating the type definitions and averaging routines within the code. (McKoy) • Completed modifying the software to incorporate the algorithms for the column-weighted cloud properties. The algorithms for the column averaged cloud properties are currently being tested and debugged. (Jimenez, McKoy) • Completed the testing of the PMOA I/O module. (McKoy, Jimenez, Raju) • Completed implementation of the MOA post-processor which creates a PMOA monthly product, which is used by TISA Gridding and TISA Averaging, from a month of MOA hourly products. The MOA post-processor is currently being tested. (McKoy) • Completed updating the FSW HDF post-processor to use the Release 2 type definitions. (McKoy) • No status update on the file/month boundary problem. (McKoy) • Prepared and delivered the pre-delivery memo to CERES CM. (McKoy) • Reviewing and modifying the TISA Gridding test plan. (Franklin)	
9.0	McKoy	• Combined with above.	
11.0	Stassi/ Fan	• Corrected the view zenith angle check so that only data within 70 degree view zenith is accepted. This correction eliminated the rim problem which was due to wobbly satellite seeing space when it thought it was viewing the edge of the earth. (Stassi) • Modifying the code to keep separate viewing angles for visible and infrared channel data. This will allow us to get data for the different channels from different satellites. (Stassi) • Looking at how to put the S11 design diagrams into the new StP tool. (Stassi)	

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CERESlib	Stassi/ Fan	• Testing the 7.2 SGI F90 compiler. (McIntire, McKinley, Bentley, Stassi) • Delivered the bulletin "How to Write Metadata for a Granule using the Wrapper" for review. (Fan, Mitchum) • Start the bulletin "How to Read Metadata". (Fan, Mitchum) • Added one more attribute to the wrapper, because the attribute ParameterName is required for QA flags. (Fan) • Tested the new SGI compiler version (Aug 28th version) with meta_util.f90 successfully. (Fan) • Worked with Alice in trying to determine why the use of optional parameter, Gring, in the call to the metadata wrapper produced the compilation error, “no specific match for reference to the generic WriteMeta subroutine.” (Franklin) • Added ceres_meteor module. (Coleman, Stassi) • Updated crs_io module. (Gupta, Stassi) • Updated meta_util module. (Fan, Stassi)	
CM	Ayers	• Delivered Subsystems 4.5 & 4.6, Release 2 package to the DAAC. Re-delivered Subsystem 1.0. (Ayers, McKoy, Hyer)	
IST	Flug	• Working on incorporating ESQL/C code into existing cgi-bin scripts so that the Web application can pull h/k data directly from the database. (Flug) • Began making mods. to HTML and cgi programs to allow user to request h/k data for a specific time range. (Flug)	